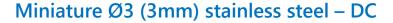
PY3 Series Inductive Proximity Sensors





- Smooth barrel (no threads)
- Complete overload protection
- IP67 rated

- Stainless steel construction
- LED status indicator
- · Lifetime warranty

PY Series Ø3 DC Inductive Proximity Selection Chart											
Part Number	Price	Sensing Range mm [in]	Mounting	Output State	Logic	Connection	Dimensions				
Standard Distance											
PY3-AN-1A	\$95.00	0.6 [0.024]	Flush	N.O.	NPN	2m [6.5 ft] axial cable	Figure 1				
PY3-AP-1A	\$95.00	0.6 [0.024]	Flush	N.O.	PNP	2m [6.5 ft] axial cable	Figure 1				
Extended Distance											
PY3-AN-3A	\$105.00	1 [0.039]	Flush	N.O.	NPN	2m [6.5 ft] axial cable	Figure 1				
<u>PY3-AP-3A</u>	\$105.00	1 [0.039]	Flush	N.O.	PNP	2m [6.5 ft] axial cable	Figure 1				

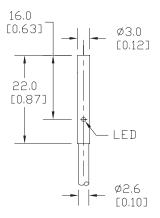
PY Series Specifications								
Specification	Standard Distance	Extended Distance						
Mounting Type	Flush							
Nominal Sensing Distance	0.6 mm [0.024 in]	1mm [0.039 in]						
Operating Distance	NA	NA						
Material Correction Factors	See the Material Influence table							
Output Type	NPN or PNP, N.O. only, 3-wire							
Operating Voltage	10 to 30 VDC							
No-load Supply Current	≤ 10mA							
Operating (Load) Current	≤ 100mA							
Off-state (Leakage) Current	≤ 10µA	≤ 0.1mA						
Voltage Drop	≤ 2.0 V							
Switching Frequency	5kHz	3kHz						
Differential Travel (% of Nominal Distance)	≤ 10%							
Repeat Accuracy	≤ 5%							
Ripple	≤ 20%							
Time Delay Before Availability (tv)	10ms							
Reverse Polarity Protection	Yes							
Short-Circuit Protection	Yes (switch auto-resets after overload is removed)							
Operating Temperature	-25 to +70°C [-13 to 158 F]							
Protection Degree (DIN 40050)	IEC IP67							
Indication/Switch Status	Yellow (output energized)							
Housing Material	Stainless steel							
Sensing Face Material	Polyester							
Shock/Vibration	See Proximity Sensor Terminology							
Tightening Torque	NA							
Weight	23g [0.81 oz]	22g [0.78 oz]						
Connection	2 [6.5 ft] meter PVC cable							
Agency Approvals	UL file I	UL file E328811						

To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

Dimensions

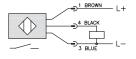
mm [inches]

Figure 1

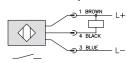


Wiring Diagrams

PNP Output



NPN Output



Accessories for 3mm Sensors

Right-angle Mounting Bracket

Mounting bracket, right-angle, 316L stainless steel. Package of 2. For use with 3mm sensors.

Accessories for 3mm Sensors									
Part Number	Price	Description		Weight [lb]					
<u>OPT2037</u>	\$25.50	Wenglor mounting bracket, right-angle, 316L stainless steel. Package of 2. For use with 3mm sensors.	PDF	0.02					



OPT2037

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